C-172N (N738NH) AIRPLANE QUESTIONNAIRE

Score: Type/Model Aircraft: <u>C-1/2N (N/38NH)</u>	
Complete this open book questionnaire using the <i>Flight Manual/Pilot's Op</i> question is not applicable, write in NA. The check pilot will review and gr is 80%. The completed questionnaire will be filed in the pilot's flight record	ade the questionnaire. Minimum passing score
1. Approved fuel grades and colors are: 100 LL (Blue) / 100 (C	Green)
2. Location/capacity of each fuel tank is: Wings / 21.5 gal ea. (43	gal total)
3. Total usable fuel under all flight conditions is gallons: 40 gal.	
4. Endurance at 75% power, 7,500-foot MSL, with a 45-minute reserve is	hours: 3.8 hrs.
5. What make and grade oil is used? Winter: 15-50W (NCWG Standard)	rd) Summer: 15-50W (NCWG Standard)
6. Oil capacity is 8 quarts. Minimum oil quantity for take off is	5 quarts.
7. Minimum oil pressure is 20 psi. Maximum oil pressure is 11	5
8. Maximum oil temperature is 245 degrees (F or C) F	
9. Magnetos are checked at RPM. RPM drop should not ex	ceed 125 RPM on
either magneto or RPM differential between magnetos.	
10. Maximum RPM and MP for takeoff are 2700 and N/A in/H	g.
11. Maximum gross takeoff weight is pounds. Empty weight is	pounds.
Useful load is pounds. Maximum landing weight is	pounds.
12. Baggage compartment locations/weights are: (1) 95" - 120 lbs	(2) 123" - 50 lbs (120 max total)
13. Give the IAS at maximum gross weight for:	
a. Va (maneuvering speed). 105 KAIS f. Vmc (minimum	m control speed – multiengine only). N/A.
b. Vso (stall, landing config, power. off). 40 KAIS g. Best glide spec	ed. <u>68 KIAS</u> .
c. Vs1 (stall, cruise config, power. off). 50 KAIS .	
d. Vy (best rate of climb, sea level). 73 KAIS.	
e. Vx (best angle of climb, sea level). 62 KAIS.	
14. Give the immediate action/memory items for:	
a. Engine failure immediately after takeoff. AIRSPEED - 70 KIAS (flaps UP) - 65 KIAS (flaps DOWN)	

b. Fire during cranking and engine fails to start.
CRANKING -CONTINUE
THROTTLE – FULL OPEN
MIXTURE – IDLE CUT-OFF
CRANKING - CONTINUE .
c. Engine fire in flight.
MIXTURE - IDLE CUT-OFF
FUEL SELECTOR VALVE - OFF .
d Flancking fire in flinks
d. Electrical fire in flight. MASTER SWITCH – OFF
AVIONICS POWER SWITCH - OFF .
15. Normal takeoff flap setting is $\underline{0 \text{ deg}}$, short field takeoff setting is $\underline{10 \text{ deg}}$, and soft field takeoff flap setting is $\underline{10 \text{ deg}}$.
16. Maximum demonstrated takeoff/landing crosswind component is knots.
17. Given: PA = 4,000 feet; Temp = 860 F; Runway 27; Wind 3200 at 14 knots; runway is paved, level, and dry; aircraft is at maximum takeoff weight.
Find: Total takeoff distance to clear a 50-foot obstacle: 2511 ft .
18. Given: PA = 6,000 feet; Temp = 680 F; wind calm; runway is paved, level, and dry; aircraft is at maximum landing weight.
Find: Total landing distance to clear a 50-foot obstacle: 1510 ft .
19. Landing runway 22; wind 1900 at 22 gusting to 30 knots. Will the maximum demonstrated crosswind component for this aircraft be exceeded? NO .